THREE-CHIP DPL PROJECTORS

CATALOGUE 2010

powered by

CHRISTIE®

M Series

Audience events
Auditoriums
Boardrooms
Broadcast studios
Conference rooms
Home cinema
Houses of worship
Post-production
Training rooms
And more...

Redefine your expectations.

DLP
TEXAS INSTRUMENTS

We didn't just raise the bar.
We redefined the entire game.

THE CHRISTIE M SERIES JUST GOT WIDER.

We've designed the M Series, a flexible, efficient line of 3-chip DLP® projectors, with your needs in mind. We've thought of it all, put it into a sleek, compact chassis and provided you with a full set of options.

The most compact in its class, this dual mercury lamp platform provides the high-performance and feature-rich standards you've come to expect from all Christie products. You'll see that we continue to deliver brightness, versatility, reliability, affordability and now, native wide resolution in the most recent additions to the Christie family of display solutions.

Ranging from 2850 ANSI lumens/3135 center lumens (single lamp, 200W) to 10,500 ANSI lumens/11,550 center lumens (dual lamp, 350W), each of the M Series projectors offer high efficiency and low cost of ownership by operating at 1320W – giving you full brightness while using less power. These projectors employ feedback systems to determine the number of lamps and power level used to adjust the fan speed required to cool the system.

The Christie M Series platform now includes four resolutions, WXGA (1366 x 768), SX+ (1400 x 1050), HD (1920 x 1080) and WUXGA (1920 x 1200), all with a variable contrast ratio of 2500-10,000:1* (full on/full off)/650:1 ANSI for crisp, detailed images. Each of the projectors in the series can also be fitted with the broadest range of high-quality lenses – all with true Intelligent Lens System (ILS™) capabilities.

All this, combined with a 3-year warranty and our industry-leading service and support, enables the M Series to provide high performance and peace of mind for all users.

* Using dynamic iris.

CHRISTIE®

[1] Dual-lamp system[1, 2]

High-efficiency, dual-lamp system:

- 200W or 350W (two lamp system)
- 120V (operation) for full brightness
- At maximum brightness 10,500 ANSI lumens (11,500 center lumens) the unit only draws 1320W
- Stand by power consumption (phantom power draw) is less than 20W
- Lamps can be hot swapped while projector is powered on and in use

Brightness		200W	350W
Dual lamp	max power	6300 ANSI lumens (6930 center lumens)	10,500 ANSI lumens (11,500 center lumens)
	min power	4725 ANSI lumens (5200 center lumens)	8535 ANSI lumens (9400 center lumens)
Single lamp	max power	3150 ANSI lumens (3465 center lumens)	5250 ANSI lumens (5775 center lumens)
	min power	2360 ANSI lumens (2600 center lumens)	4260 ANSI lumens (4700 center lumens)

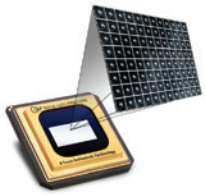
Lumen values in table above are for SX+ models.
Flexible lumens levels at various lamp powers.
Lamp power is specific to each model and cannot be interchanged.

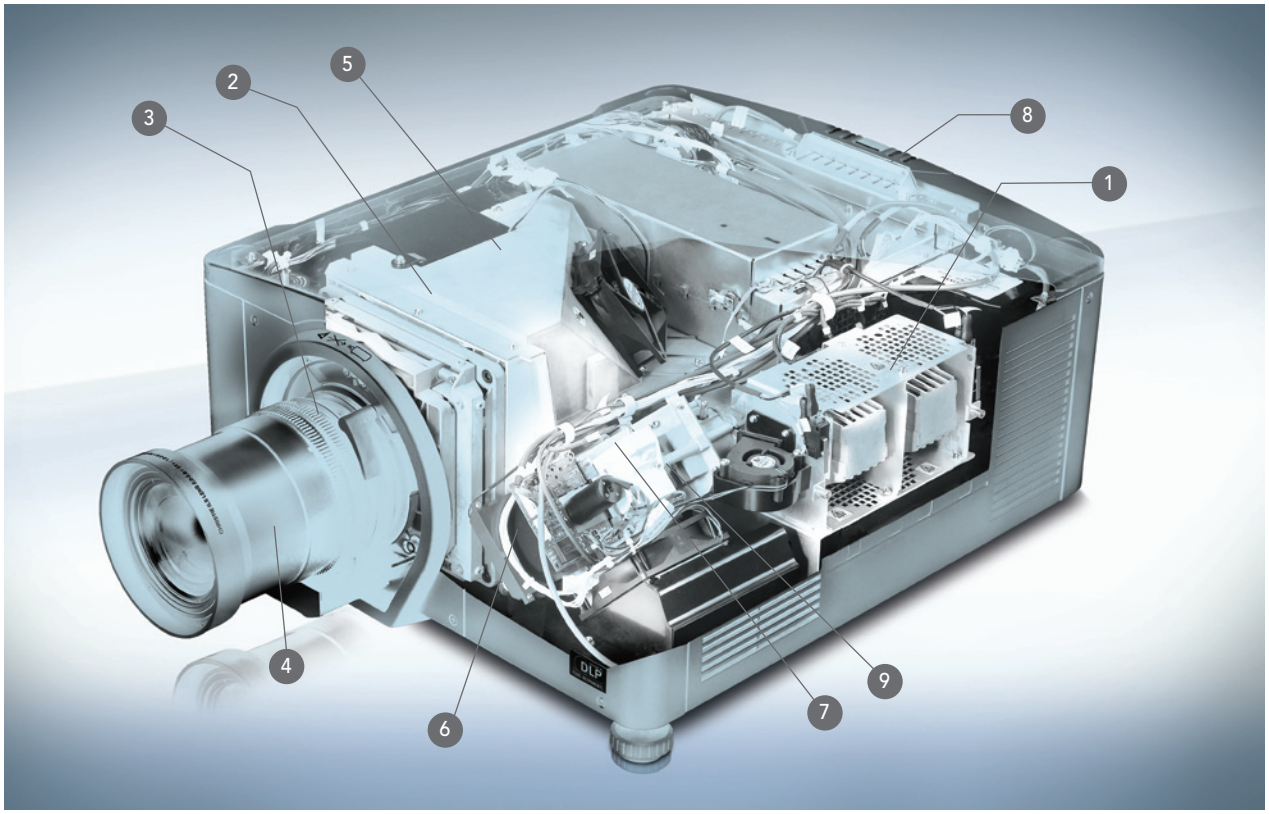
[2] Image quality

3-chip DLP® technology, high-quality optics and world-class 10-bit image processing.

With low maintenance and highly reliable (>100,000 hours) DLP® technology, the Christie M Series delivers:

- High brightness
- Excellent color
- Excellent uniformity
- High contrast
- Excellent fill ratio





[3] Intelligent Lens System (ILS™)

The ILS automatically recognizes and calibrates a lens when it is installed. Stepper motor based encoding ensures that motor drift does not occur, as typically found with DC encoded motors, providing accurate and repeatable recall of all lens offset, zoom and focus positions.

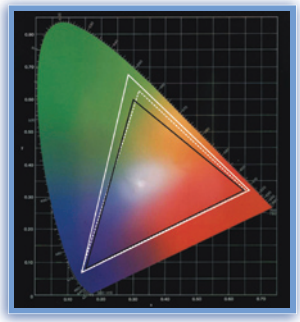
[4] Expanded lens suite

With the addition of a short zoom (1.25-1.6:1 SX+/ 1.16-1.49:1 HD) and a long zoom (7.5-11.2:1 SX+/ 6.9-10.4:1 HD), this expanded suite provides the broadest range of HD lenses in this marketplace.

[5] Dust sealed engine

M Series projectors can operate filter-free because of dust-sealed engines and optics. Since dust and dirt cannot affect the system and filters are not required, image quality is maintained and maintenance costs are lower. Removable side panels enable the addition of optional coarse dust and fog juice filters for projectors that are exposed to harsh environments.

[6] Motorized yellow notch filter[2]



Expanded color gamut
Regular color gamut
REC 709

The motorized yellow notch filter optically expands the color gamut for richer greens and yellows. Since you lose some brightness by improving the greens and yellows, this is a channel-configurable option which enables you to decide when it is needed. This filter, available on M Series HD models only, is ideal when video is being displayed.

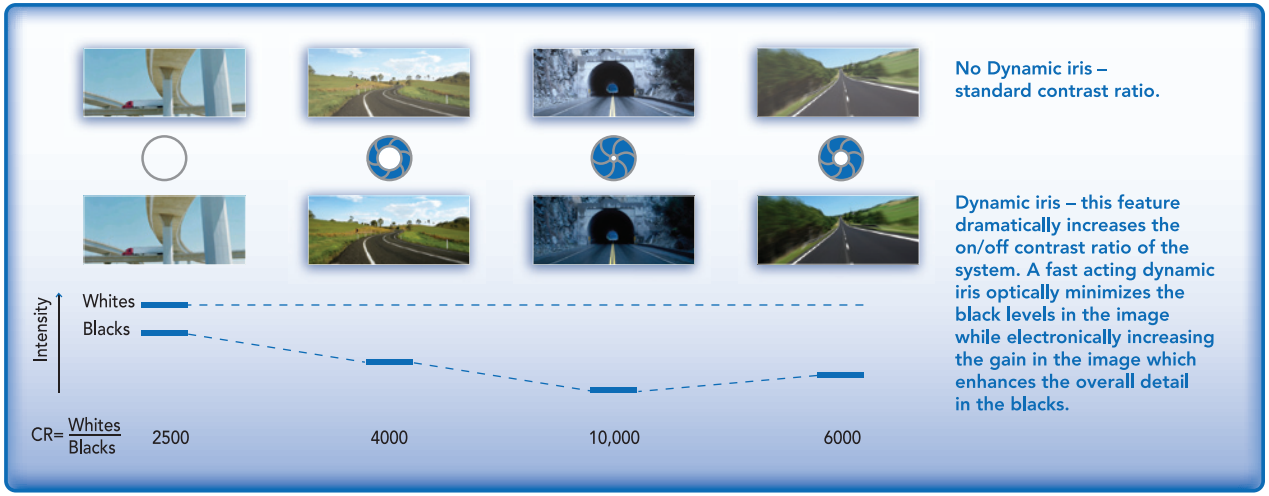
Standard color gamut

Expanded color gamut

[7] Dynamic iris

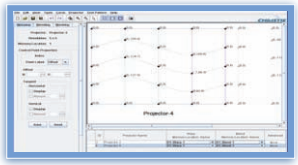
Ideal for video applications, the dynamic iris is a channel-configurable option. It automatically adjusts an internal iris to extend the range of blacks and provide richer details during dark scenes for true image reproduction.

A variable contrast ratio of 2500-10,000:1 produces a picture with a rich, dynamic appearance.

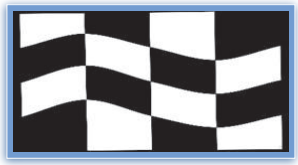

No Dynamic iris – standard contrast ratio.
Dynamic iris – this feature dramatically increases the on/off contrast ratio of the system. A fast acting dynamic iris optically minimizes the black levels in the image while electronically increasing the gain in the image which enhances the overall detail in the blacks.
Intensity
Whites
Blacks
CR= Whites / Blacks
2500
4000
10,000
6000

[8] Embedded Christie Twist™

Standard in all M Series models, Christie Twist™ enables seamless white and black level edge-blending of multiple curved images, faster and more easily than through traditional, manual methods. Controlled by an easy-to-use GUI users can expertly control and edge blend or stack multiple curved images. As well, images can be warped to fit virtually any dimension or shape display. Embedded Christie Twist™ ensures that all M Series projectors work with value-added accessories, such as Christie AutoStack™.



Easy-to-use GUI



Easy-to-use GUI

Image on curved screen – before blending

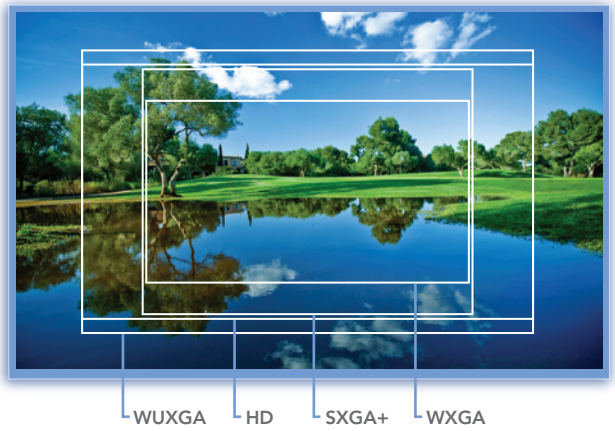
Curved screen – after blending

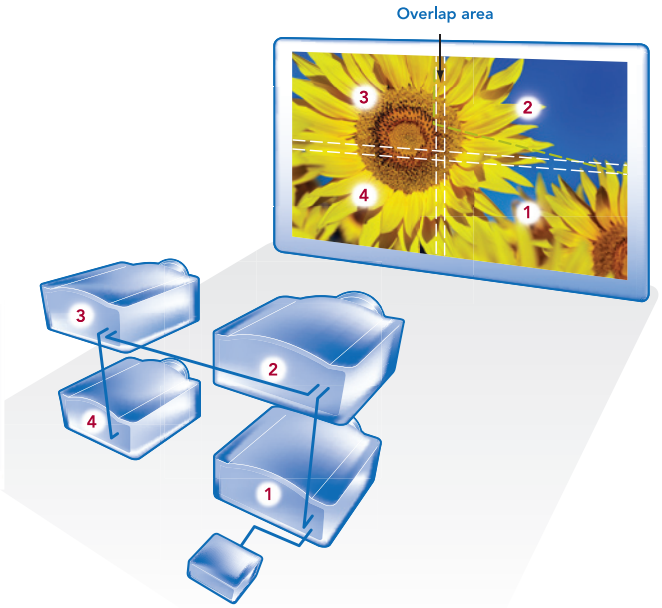
[9] LiteLOC™,1

The LiteLOC™ feature automatically manages your display's brightness levels over time so that you can match the brightness of a multiple projector system in tiled or blended arrays. This feedback system continuously monitors lamp brightness, so that as the lamp goes through its natural brightness decay, the system increases the lamp power in order to maintain consistent brightness.

No LiteLOC™ LiteLOC™

Wide screen ratios provide a multitude of benefits in a variety of different projection applications. Carefully matching the pixel format of the projector with that of the sources to be displayed will ensure the best image quality and maximum impact. The M Series now offers 4:3, 16:9 and 16:10 models to match the aspect ratio requirements of any application.



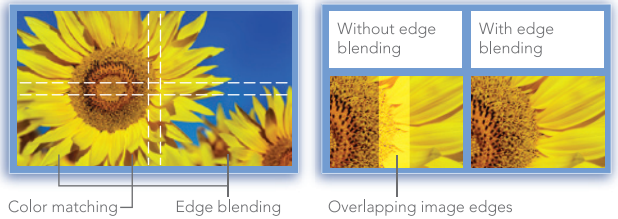


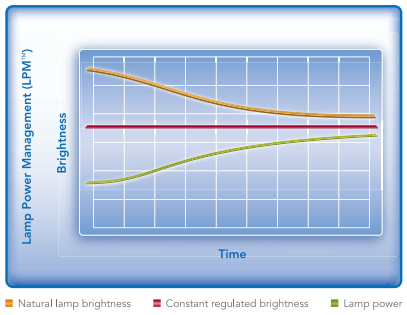
[8] Multi-window/screen processing

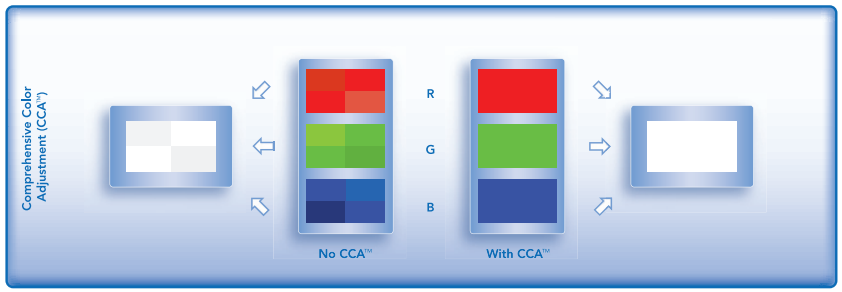
External processors are not required for simple, small tiled and blended arrays, therefore lowering your costs for installation. Each M Series projector has the ability to send signals to multiple projectors (up to a 3 x 3 array)* without any additional hardware or software. The projectors in the tiled array can then show only the portion of the signal that they need to project.

[8] Embedded edge blending and color matching

Advanced blending capabilities and Comprehensive Color Adjustment (CCA™) ensure digitally accurate color matching and uniformity across multi-screen blended or tiled images.



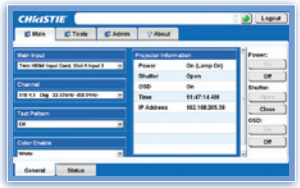




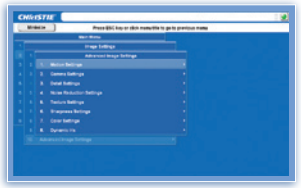
* Subject to input bandwidth limitations.

[8] ChristieNET™ web interface

ChristieNET™ enables users to access all projector menus and controls through a web interface without disrupting the live presentation. This allows for real-time adjustments and monitoring of each projector on the network – regardless of geographic location.



Main page controls and information.



Virtual On Screen Display (OSD): access full menu structure, remotely.

Status and diagnostics: displays alarm events for quick projector monitoring and diagnosis.

Admin screen includes upload, backup, restore and more.

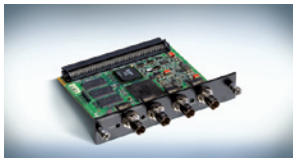
[8] Automatic shut-off

This feature lowers the cost of ownership by reducing power consumption and extending lamp life when the projector is not in use. In this mode, if a signal is not detected, the projector will slowly dim the lamps then shut off one lamp, and finally if there is still no signal, the system will go into standby mode. If a signal is detected during the ramp-down phase the unit will revert back to its full power, dual lamp mode.

[8] Input cards

In total, there are four input card slots available. Each projector is equipped with a standard set of input cards.

Dual SD/HD – SDI input card



The Dual SD/HD-SDI input card accepts both standard-definition (SD) and high-definition (HD) serial-digital-interface (SDI) signals, and enables the user to connect two of either types of signal. Both single-link HD and dual-link HD signals are accepted. This card also has two SD/HD-SDI outputs to enable "loop-through" for its respective input.

Analog input card

The Analog input card accepts an analog video signal input over a 5 BNC connector interface. It can accept RGBH&V signals over 5 connectors, as well as component YPbPr signals on the RGB inputs.

Dual link DVI input card

The Dual link DVI input card has a 15-pin VGA connector for analog signals and a DVI-I connector which can support a single- or dual-link DVI HDCP video signal. The card can simultaneously support a digital signal on the DVI input and an analog signal on the VGA port.

DMX512 interface card

This interface card supports the DMX512 communication standard through two 5-pin XLR connectors.

Video decoder input card

The Video decoder input card accepts various types of standard definition (SD) video, including CVBS (composite video), S-video, and component. It accepts NTSC 3.58, NTSC 4.4, PAL, PAL-N, PAL-M or SECAM formats. This card has two mini-DIN connectors (for S-video signals) and four BNC connectors that can be grouped to allow combinations of CVBS, S-Video, YPrPb or RGB video sources.

Twin HDMI™ input card

The Twin HDMI input card accepts two HDMI inputs and provides 12-bit deep color handling on the input. Additionally, advanced loop-through allows any input on any input card to be looped through to the two HDMI outputs on the card.

LCD keypad

This easy-to-use LCD keypad includes:

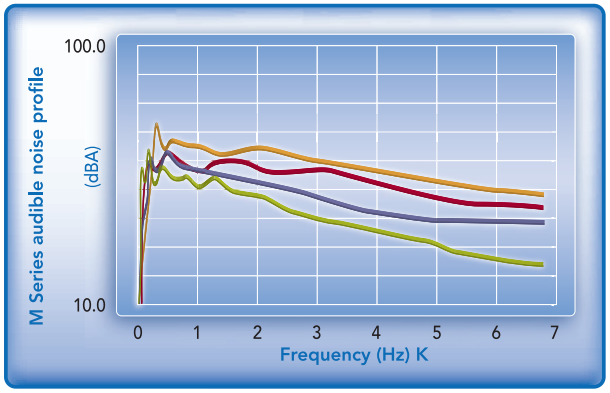
- Contextual menus provide a fully-featured, intuitive interface; removing the need for a cluttered keypad
- Large, four line LCD display
- Adjustable brightness and timed LCD off mode
- Intuitive keypad design that lights up when features are active – making it user friendly
- Active keys are color-coded amber to indicate that selections will result in changes visible to the audience.

Dual-frequency receiver

The dual-frequency (38 kHz and 455 kHz) receiver ensure the projector receives signals at increased distances between the remote and projector, and reduces the affect of interference from lighting.

Quiet operation

When your presentation depends on the full attention of your audience you don't want them focused on the noise from your projector. The filter-free design with auto-sensing fan and temperature sensors automatically adjust for the quietest operation possible.



200W single lamp mode
350W dual lamp mode
200W dual lamp mode
Max ambient with filter installed

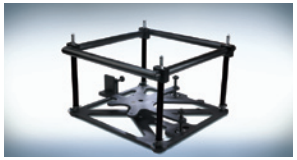
Sound is reduced in the various modes, as well, high pitched, annoying frequencies are minimized.

Roadster models

The M Series Roadster models have been designed with stagers in mind. The Christie Roadster S+10K-M, Christie Roadster HD10K-M and Christie Roadster WU12K-M ship equipped with more input cards than the other M Series models, as well as a stacking frame.

Accessories

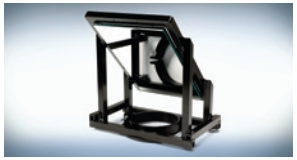
Whatever you need, Christie has a large selection of optional accessories. Create the projector you need by choosing from eight lenses, various input cards and much more.


Optional stacking frame

Optional ceiling mount

Optional lamp

Optional lenses


Optional portrait display adapter

Optional Christie AutoStack™

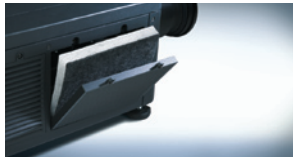
Filters (optional)

If the environment you're working in requires more than the protection of our dust sealed engine, choose from one of two filters (coarse dust and fog juice). Help extend the life of your projector and protect your investment from dirt, dust, sand as well as fog, smoke, hazers and pyrotechnics. Each M Series projector is equipped with two removable side panels that are designed to hold a filter, if required.

	Description	Part number
Lens - fixed	Lens ILS 0.73:1 SX+/0.67:1 HD	118-100110-XX
	Lens ILS 1.2:1 SX+ /1.1:1 HD	118-100117-XX
Lens - zoom	Lens ILS 1.25-1.6:1 SX+/1.16-1.49:1 HD	118-100111-XX
	Lens ILS 1.5-2.0:1 SX+/1.4-1.8:1 HD	118-100112-XX
	Lens ILS 2.0-2.8:1 SX+/1.8-2.6:1 HD	118-100113-XX
	Lens ILS 2.8-4.5:1 SX+/2.6-4.1:1 HD	118-100114-XX
	Lens ILS 4.5-7.5:1 SX+/4.1-6.9:1 HD	118-100115-XX
	Lens ILS 7.5-11.2:1 SX+/6.9-10.4:1 HD	118-100116-XX
Lamps*	Assembly 350W lamp	003-100857-XX
	Assembly 200W lamp	003-100856-XX
Input cards	Analog input	108-309101-XX
	Dual link DVI input	108-312101-XX
	Video decoder input	108-310101-XX
	Dual SD/HD-SDI input	108-313101-XX
	Twin HDMI input	108-311101-XX
	DMX512 interface	108-314101-XX
Miscellaneous accessories	Coarse dust filter pack M Series	118-100104-XX
	Fog juice filter pack M Series	118-100105-XX
	Stacking frame	118-100107-XX
	Ceiling mount	118-100108-XX
	Ceiling mount extension	104-101001
	Portrait display adapter	118-116109-XX
	ILS lens adapter kit	108-331108-XX
	Christie AutoStack™	108-308101-01

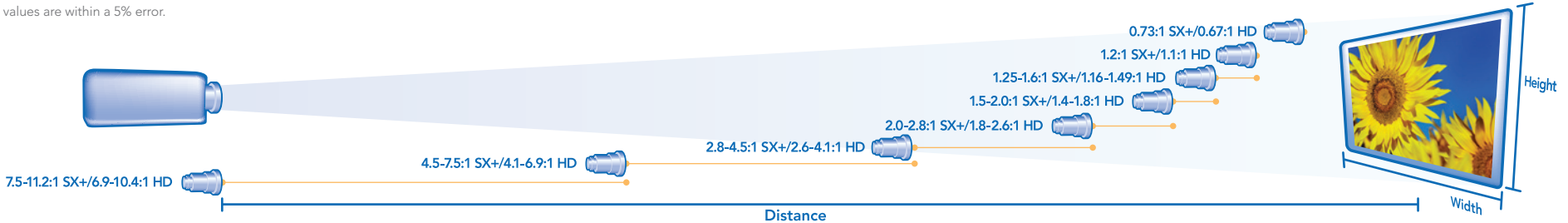
* Lamp power is specific to each model and cannot be interchanged.

Optional coarse dust filter


Optional fog juice filter

			Lens name									
			0.73:1 SX+/ 0.67:1 HD	1.2:1 SX+/ 1.1:1 HD	1.25-1.6:1 SX+/1.16-1.49:1 HD		1.5-2.0:1 SX+/ 1.4-1.8:1 HD	2.0-2.8:1 SX+/ 1.8-2.6:1 HD	2.8-4.5:1 SX+/ 2.6-4.1:1 HD	4.5-7.5:1 SX+/4.1-6.9:1 HD	7.5-11.2:1 SX+/6.9-10.4:1 HD	
			Lens throw ratio									
SX+ (4:3)	Screen size		0.73	1.2	1.25	1.6	1.5	2	2.8	4.5	7.5	11.2
	Screen width – ft (m)	Screen height – ft (m)	Throw distance – ft (m)									
	4.8 (1.5)	3.6 (1.1)	3.5 (1.1)	5.8 (1.8)	6.0 (1.8)	7.7 (2.3)	7.2 (2.2)	9.6 (2.9)	13.4 (4.1)	21.6 (6.6)	36.0 (11.0)	53.8 (16.4)
	6.4 (2.0)	4.8 (1.5)	4.7 (1.4)	7.7 (2.3)	8.0 (2.4)	10.2 (3.1)	9.6 (2.9)	12.8 (3.9)	17.9 (5.5)	28.8 (8.8)	48.0 (14.6)	71.7 (21.8)
	12.8 (3.9)	9.6 (2.9)	9.3 (2.8)	15.4 (4.7)	16.0 (4.9)	20.5 (6.2)	19.2 (5.9)	25.6 (7.8)	35.8 (10.9)	57.6 (17.6)	96.0 (29.3)	143.4 (43.7)
	20.0 (6.1)	15.0 (4.6)	14.6 (4.5)	24.0 (7.3)	25.0 (7.6)	32.0 (9.8)	30.0 (9.1)	40.0 (12.2)	56.0 (17.1)	90.0 (27.4)	150.0 (45.7)	224.0 (68.3)
	24.0 (7.3)	18.0 (5.5)	17.5 (5.3)	28.8 (8.8)	30.0 (9.1)	38.4 (11.7)	36.0 (11.0)	48.0 (14.6)	67.2 (20.5)	108.0 (32.9)	180.0 (54.9)	268.8 (81.9)
	32.0 (9.8)	24.0 (7.3)	23.4 (7.1)	38.4 (11.7)	40.0 (12.2)	51.2 (15.6)	48.0 (14.6)	64.0 (19.5)	89.6 (27.3)	144.0 (43.9)	240.0 (73.2)	358.4 (109.2)
	40.0 (12.2)	30.0 (9.1)	29.2 (8.9)	48.0 (14.6)	50.0 (15.2)	64.0 (19.5)	60.0 (18.3)	80.0 (24.4)	112.0 (34.1)	180.0 (54.9)	300.0 (91.4)	448.0 (136.6)
WX (16:9)	Screen size		0.75	1.24	1.29	1.65	1.54	2.07	2.84	4.61	7.69	11.49
	Screen width – ft (m)	Screen height – ft (m)	Throw distance – ft (m)									
	5.2 (1.6)	2.9 (0.9)	3.9 (1.2)	6.5 (2.0)	6.8 (2.1)	8.6 (2.6)	8.0 (2.5)	10.8 (3.3)	14.8 (4.5)	24.1 (7.4)	40.2 (12.3)	60.1 (18.3)
	7.0 (2.1)	3.9 (1.2)	5.2 (1.6)	8.6 (2.6)	9.0 (2.7)	11.5 (3.5)	10.7 (3.3)	14.4 (4.4)	19.8 (6.0)	32.2 (9.8)	53.6 (16.3)	80.1 (24.4)
	13.9 (4.3)	7.8 (2.4)	10.4 (3.2)	17.3 (5.3)	18.0 (5.5)	23.0 (7.0)	21.4 (6.5)	28.9 (8.8)	39.6 (12.1)	64.3 (19.6)	107.2 (32.7)	160.2 (48.8)
	21.8 (6.6)	12.3 (3.7)	16.3 (5.0)	27.0 (8.2)	28.1 (8.6)	36.0 (11.0)	33.5 (10.2)	45.1 (13.7)	61.9 (18.9)	100.5 (30.6)	167.5 (51.1)	250.4 (76.3)
	26.2 (8.0)	14.7 (4.5)	19.6 (6.0)	32.4 (9.9)	33.8 (10.3)	43.1 (13.2)	40.2 (12.3)	54.1 (16.5)	74.2 (22.6)	120.6 (36.8)	201.0 (61.3)	300.5 (91.6)
	34.9 (10.6)	19.6 (6.0)	26.1 (7.9)	43.2 (13.2)	45.0 (13.7)	57.5 (17.5)	53.6 (16.3)	72.2 (22.0)	99.0 (30.2)	160.8 (49.0)	268.0 (81.7)	400.6 (122.1)
	43.6 (13.3)	24.5 (7.5)	32.6 (9.9)	54.0 (16.5)	56.3 (17.2)	71.9 (21.9)	67.0 (20.4)	90.2 (27.5)	123.7 (37.7)	201.0 (61.3)	335.0 (102.1)	500.8 (152.6)
HD (16:9)	Screen size		0.67	1.1	1.16	1.49	1.4	1.8	2.6	4.1	6.9	10.4
	Screen width – ft (m)	Screen height – ft (m)	Throw distance – ft (m)									
	5.2 (1.6)	2.9 (0.9)	3.5 (1.1)	5.8 (1.8)	6.1 (1.8)	7.8 (2.4)	7.3 (2.2)	9.4 (2.9)	13.6 (4.1)	21.4 (6.5)	36.1 (11.0)	54.4 (16.6)
	7.0 (2.1)	3.9 (1.2)	4.7 (1.4)	7.7 (2.3)	8.1 (2.5)	10.4 (3.2)	9.8 (3.0)	12.6 (3.8)	18.1 (5.5)	28.6 (8.7)	48.1 (14.7)	72.5 (22.1)
	13.9 (4.3)	7.8 (2.4)	9.3 (2.8)	15.3 (4.7)	16.2 (4.9)	20.8 (6.3)	19.5 (6.0)	25.1 (7.7)	36.3 (11.1)	57.2 (17.4)	96.2 (29.3)	145.0 (44.2)
	21.8 (6.6)	12.3 (3.7)	14.6 (4.4)	24.0 (7.3)	25.3 (7.7)	32.5 (9.9)	30.5 (9.3)	39.2 (12.0)	56.7 (17.3)	89.3 (27.2)	150.3 (45.8)	226.6 (69.1)
	26.1 (8.0)	14.7 (4.5)	17.5 (5.3)	28.8 (8.8)	30.3 (9.2)	39.0 (11.9)	36.6 (11.2)	47.1 (14.3)	68.0 (20.7)	107.2 (32.7)	180.4 (55.0)	271.9 (82.9)
	34.9 (10.6)	19.6 (6.0)	23.4 (7.1)	38.3 (11.7)	40.4 (12.3)	51.9 (15.8)	48.8 (14.9)	62.8 (19.1)	90.6 (27.6)	142.9 (43.6)	240.6 (73.3)	362.6 (110.5)
	43.6 (13.3)	24.5 (7.5)	29.2 (8.9)	47.9 (14.6)	50.6 (15.4)	64.9 (19.8)	61.0 (18.6)	78.4 (23.9)	113.3 (34.5)	178.7 (54.5)	300.7 (91.7)	453.2 (138.1)
WU (16:10)	Screen size		0.67	1.1	1.16	1.49	1.4	1.8	2.6	4.1	6.9	10.4
	Screen width – ft (m)	Screen height – ft (m)	Throw distance – ft (m)									
	5.1 (1.6)	3.2 (1.0)	3.4 (1.0)	5.6 (1.7)	5.9 (1.8)	7.6 (2.3)	7.1 (2.2)	9.2 (2.8)	13.2 (4.0)	20.9 (6.4)	35.1 (10.7)	52.9 (16.1)
	6.8 (2.1)	4.2 (1.3)	4.5 (1.4)	7.5 (2.3)	7.9 (2.4)	10.1 (3.1)	9.5 (2.9)	12.2 (3.7)	17.6 (5.4)	27.8 (8.5)	46.8 (14.3)	70.6 (21.5)
	13.6 (4.1)	8.5 (2.6)	9.1 (2.8)	14.9 (4.5)	15.7 (4.8)	20.2 (6.2)	19.0 (5.8)	24.4 (7.4)	35.3 (10.8)	55.6 (17.0)	93.6 (28.5)	141.1 (43.0)
	21.2 (6.5)	13.2 (4.0)	14.2 (4.3)	23.3 (7.1)	24.6 (7.5)	31.6 (9.6)	29.7 (9.0)	38.2 (11.6)	55.1 (16.8)	86.9 (26.5)	146.3 (44.6)	220.5 (67.2)
	25.4 (7.8)	15.9 (4.8)	17.0 (5.2)	28.0 (8.5)	29.5 (9.0)	37.9 (11.6)	35.6 (10.9)	45.8 (14.0)	66.1 (20.2)	104.3 (31.8)	175.5 (53.5)	264.6 (80.6)
	33.9 (10.3)	21.2 (6.5)	22.7 (6.9)	37.3 (11.4)	39.3 (12.0)	50.5 (15.4)	47.5 (14.5)	61.1 (18.6)	88.2 (26.9)	139.1 (42.4)	234.0 (71.3)	352.8 (107.5)
	42.4 (12.9)	26.5 (8.1)	28.4 (8.7)	46.6 (14.2)	49.2 (15.0)	63.2 (19.3)	59.4 (18.1)	76.3 (23.3)	110.2 (33.6)	173.8 (53.0)	292.6 (89.2)	441.0 (134.4)

All values are within a 5% error.

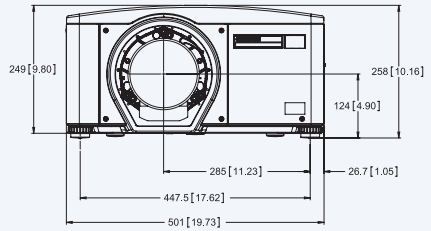


			SXGA+ (4:3)			HD (16:9)			WXGA (16:9)	
			DS+6K-M	DS+10K-M	Roadster S+10K-M	HD6K-M	HD10K-M	Roadster HD10K-M	WX7K-M	WX10K-M
Image	brightness	dual lamp	6300 ANSI lumens (6930 center lumens)	10,500 ANSI lumens (11,550 center lumens)		6000 ANSI lumens (6600 center lumens)	10,000 ANSI lumens (11,000 center lumens)		5700 ANSI lumens (6270 center lumens)	9500 ANSI lumens (10,450 center lumens)
		single lamp	3150 ANSI lumens (3465 center lumens)	5250 ANSI lumens (5775 center lumens)		3000 ANSI lumens (3300 center lumens)	5000 ANSI lumens (5500 center lumens)		2850 ANSI lumens (3135 center lumens)	4750 ANSI lumens (5225 center lumens)
	contrast		2500-10,000:1 (full on/off) 650:1 ANSI (typical)							
	uniformity		90% brightness uniformity							
Display	type		3-chip 0.95" DMD						3-chip 0.85" DMD	
	native resolution		SX+ (1400 x 1050)			HD (1920 x 1080)			WXGA (1366 x 768)	
Lamp	type		Dual Osram 200W P-VIP	Dual Osram 350W P-VIP		Dual Osram 200W P-VIP	Dual Osram 350W P-VIP		Dual Osram 200W PVIP	Dual Osram 350W PVIP
	life	high power	2000 hrs @ 200W	1500 hrs @ 350W		2000 hrs @ 200W	1500 hrs @ 350W		2000 hrs @ 200W	1500 hrs @ 350W
		low power	3000 hrs @ 150W	2000 hrs @ 300W		3000 hrs @ 150W	2000 hrs @ 300W		3000 hrs @ 150W	2000 hrs @ 300W
Input	standard		Analog BNC • Dual-link DVI		Analog BNC • Dual-link DVI • Dual SD/HD-SDI • Video decoder	Analog BNC • Dual-link DVI		Analog BNC • Dual-link DVI • Dual SD/HD-SDI • Video decoder	Dual-link DVI	
	optional		Analog • Dual-link DVI • Dual SD/HD-SDI • Video Decoder • Twin HDMI							
	signals		HDTV formats VGA through to QXGA (2048 x 1536) • Accepts all current HDTV/DTV formats • Multi-standard video decoder • Horizontal and vertical scaling, all inputs							
	pixel clock		165 MHz							
	scan rates		Horizontal: 15 to 120 kHz • Vertical: 23.97 to 150 Hz							
Inputs, control and networking			RS232 in/out • RS422 In • Ethernet (10/100) • USB Device • GPIO (RS232 9 Pin male connector) • Built-in backlit LCD keypad • Remote control (with optional wired XLR connection)							
Optical system			Dust sealed, 3-chip DMD light engine • Motorized horizontal and vertical lens offset • Scheimpflug (tilt) adjustment • Built-in light shutter • Tool-free lens insertion system							
Lenses	fixed		0.73:1 SX+/0.67:1 HD* • 1.2:1 SX+/1.1:1 HD							
	zoom		1.25-1.6:1 SX+/1.16-1.49:1 HD** • 1.5-2.0:1 SX+/1.4-1.8:1 HD • 2.0-2.8:1 SX+/1.8-2.6:1 HD • 2.8-4.5:1 SX+/2.6-4.1:1 HD • 4.5-7.5:1 SX+/4.1-6.9:1 HD • 7.5-11.2:1 SX+/6.9-10.4:1 HD							
	offsets[4]		±100% Vertical • ±50% Horizontal • (* ±23%V / ±13%H) (** ±70%V ±45%H)			±120% Vertical • ±42% Horizontal • (* ±35%V / ±12%H) (** ±100%V ±40%H)			±150% Vertical • ±76% Horizontal (* ±50%V ±18%H) (** ±120%V ±58%H)	
Accessories	standard		User manual • IR remote • Line cord		Stacking frame • User manual • IR remote • Line cord	User manual • IR remote • Line cord		Stacking frame • User manual • IR remote • Line cord	User manual • IR remote • Line cord • HD15 to 5-wire BNC female adapter	
	optional		Coarse dust filter • Fog juice filter • Ceiling mount • Ceiling mount extension • ILS lens adapter kit • Portrait display adapter • Stacking frame • Christie AutoStack™							
Enhanced feature sets[3]			LiteLOC™ • Comprehensive Color Adjustment (CCA™) • Embedded Christie Twist™ image warping and edge-blending • Intelligent Lens System (ILS™) for zoom, focus, horizontal and vertical offset for all lenses • Auto setup • Digital keystone correction • Dynamic iris • Menus in five languages • 99 channel memories • Multi-windowing and processing (up to a 3 x 3 array) • Motorized yellow notch filter (HD models only) • Black level blending[5]							
Power requirements	operating voltage		110-240 VAC 50/60Hz							
	operating current		8.7 A @ 100 VAC	13.2 A @ 100 VAC		8.7 A @ 100 VAC	13.2 A @ 100 VAC		8.7 A @ 100 VAC	13.2 A @ 100 VAC
	power		870W	1320W		870W	1320W		870W	1320W
	dissipation		2971 BTU/hr	4508 BTU/hr		2971 BTU/hr	4508 BTU/hr		2971 BTU/hr	4508 BTU/hr
Dimensions	size		(LxWxH): 22.1 x 19.7 x 10.2" (561 x 500 x 259mm)							
	shipping dimensions		(LxWxH): 29.0 x 27.0 x 24.6" (735 x 685 x 625mm)							
	weight		55lb (25kg) (without lens)							
	shipping weight		80lb (36kg)							
Operating environment			Temperature: 40 to 104° F (5 to 40° C) • Humidity: 20-80% non-condensing							
Regulatory approvals			UL/CSA/IEC 60,950 (3rd edition) • FCC Class A, CE, CCC • This product conforms to all relevant European directives, standards, safety, health and environmental concerns • RoHS, WEEE							
Limited warranty			3 years parts and labor (including light engine) • Contact an authorized Christie representative for full details of our limited warranty							

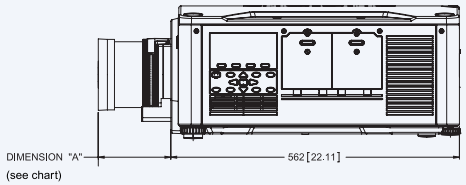
[1] US Patents 7,230,768; 6,205,271; 6,734,957. [2] Patent pending. [3] Some features may not be functional on initial product shipments but will be enabled via software upgrade when available. [4] Values are for reference and should be validated with the Christie lens calculator. [5] Not available in WXGA models

WUXGA (16:10)		
WU7K-M	WU12K-M	Roadster WU12K-M
6300 ANSI lumens (6930 center lumens)	10,500 ANSI lumens (11,550 center lumens)	
3150 ANSI lumens (3465 center lumens)	5250 ANSI lumens (5775 center lumens)	
3-chip 0.96" DMD		
WUXGA (1920 x 1200)		
Dual Osram 200W PVIP	Dual Osram 350W PVIP	
2000 hrs @ 200W	1500 hrs @ 350W	
3000 hrs @ 150W	2000 hrs @ 300W	
Analog BNC • Dual-link DVI		Analog BNC • Dual-link DVI • Dual SD/HD-SDI • Video decoder
±112% Vertical • ±54% Horizontal • (* ±22%V ±6%H) (** ±82%V ±38%H)		
User manual • IR remote • Line cord		Stacking frame • User manual • IR remote • Line cord
8.7 A @ 100 VAC	13.2 A @ 100 VAC	
870W	1320W	
2971 BTU/hr	4508 BTU/hr	

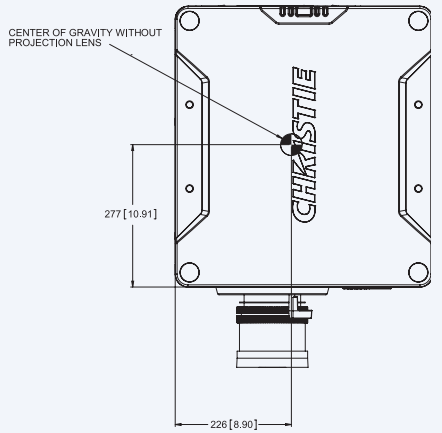
Front view



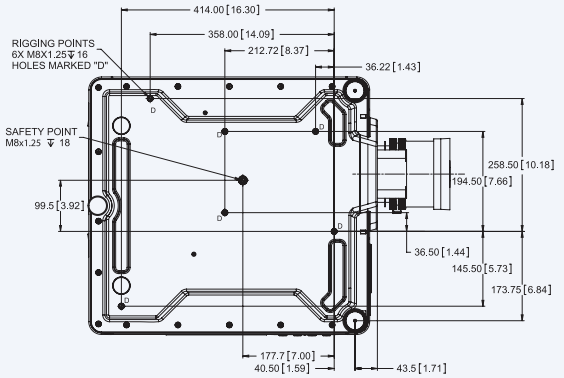
Side view



Top view



Underneath view



Description	Part number	Dimension 'A'
Lens ILS 0.73:1 SX+/0.67:1 HD	118-100110-XX	215mm (8.49")
Lens ILS 1.2SX+/1.1HD	118-100117-XX	279mm (11.01")
Lens ILS 1.25-1.6 SX+/1.16-1.49 HD	118-100111-XX	238mm (9.37")
Lens ILS 1.5-2.0 SX+/1.4-1.8 HD	118-100112-XX	205mm (8.07")
Lens ILS 2.0-2.8 SX+/1.8-2.6 HD	118-100113-XX	169mm (6.68")
Lens ILS 2.8-4.5 SX+/2.6-4.1 HD	118-100114-XX	155mm (6.14")
Lens ILS 4.5-7.5 SX+/4.1-6.9 HD	118-100115-XX	141mm (5.51")
Lens ILS 7.5-11.2 SX+/6.9-10.4 HD	118-100116-XX	199mm (7.86")

HD Series

Audience events
Auditoriums
Boardrooms
Broadcast
Conference rooms
Home theater
Houses of worship
Large venue
Renters/Stagers
Training rooms

HD done right

The Christie HD Series offers the broadest range of the brightest full 1920 x 1080 HD resolution projectors on the market today. Lighter, lower power consumption and 10% brighter than the competition – Christie is HD resolution done right.

Ranging from 2300 to a brilliant 18,000 ANSI lumens, each of the eight projectors in this series offers the highest lumens per pound, full HD resolution and proven 3-chip DLP® technology with Xenon® illumination.

The Christie Roadster HD18K is the brightest HD projector with a compact design and built-in rigging points and handles. The HD resolution provides the versatility of displaying both 16:9 and 4:3 aspect ratios without losing any content. It makes installation and use more flexible.

The Christie HD3K offers full HD resolution in a 2900 ANSI lumen lamp life package. The HD2Kc provides 2300 ANSI lumens combined with longer lamp life and a film-like color experience.

The series features a variable contrast ratio of 1600-2000:1 for crisp, detailed images and low black levels. A suite of high-quality lenses specifically designed to increase image sharpness, gives you impeccable control over your images.

The addition of a yellow notch filter creates greater separation between the primary colors, enhancing the Christie HD2Kc, HD5Kc and HD7Kc models with richer color depth.

CHRISTIE®

The Christie HD Series offers a native HD format combined with high resolution, high brightness and a compact package – for applications where image quality, color and clarity are paramount. When the images need to speak volumes, the Christie HD Series delivers high brightness, excellent color and detailed displays.

Display technology

With low maintenance and highly reliable DLP® technology, the Christie HD Series delivers:

- High brightness
- Unsurpassed color
- Brightness uniformity and
- Control capabilities in a native widescreen format

Image quality

The 3-chip 1080p engines are driven by Xenon illumination and deliver superior image quality, repeatability of colors and, the ability to edge blend and tile images – whether multiple projectors on a single screen, or multiple screen displays. The addition of a yellow notch filter in the Christie HD2Kc, HD5Kc and the HD7Kc models allows greater separation between primary colors for richer color depth and a film-like color experience.

Proven 10-bit native HD processing

Utilizing the proven 10-bit processing that's in our 2K resolution products, the Christie HD Series of projectors continues to exceed customer expectations in image quality and reproduction. High bandwidth supports additional functionality such as Picture in Picture and seamless switching between sources.

Serviceability

Operation and maintenance of the Christie HD Series is easy as well. Field-alignable DMDs and a cleanable optical engine put full control in the hands of the user. Replacement lamp costs are low and Christie offers the best warranties on the market – 2 years parts and labor (including light engine). With the addition of a dust-sealed DMD system, your maintenance remains low with Christie HD products.

Ease of use

High performance optics with a wide range of lenses allows for use in multiple types of installations. The intuitive menus, easy lamp and filter access, as well as the reliability instilled by field-proven power and processing components, are all designed to give the user peace of mind.

High performance

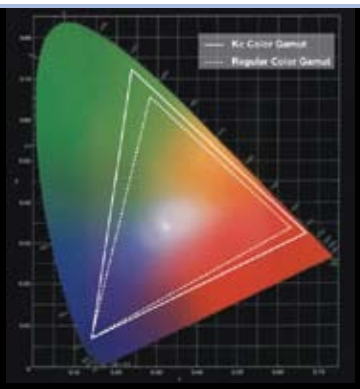
Christie-designed electronics with HD 4:4:4 capabilities and Digital Black Level control that can be used with built-in edge blending are key strengths that this product family brings with it. Additional features include seamless switching, Picture in Picture, LiteLOC™ and the ILS™ (Intelligent Lens System) for zoom and focus. The built-in RJ45 networking port also allows the 1080p HD family to utilize ChristieNET™ for monitoring and control to give the user complete asset management. The video processing, with artifact-free video and excellent color and contrast, will produce unparalleled images.

Sealed light engine

The light path is a critical element in the performance of a projector. Contaminants not only degrade performance in terms of the image quality but also effect costs relative to maintenance and service. Christie projectors provide a sealed light engine to minimize the effects of dust and smoke.

Enhanced power

Christie RoadTools™ is a FREE robust suite of software tools that enables users to set up systems faster, manage their projectors better and increase their productivity. RoadTools™ works with 3-chip DLP® and 1-chip DLP® projectors using Christie's exclusive KoRE™ technology electronics.



◀ Christie offers the Kc series of models with color correction to project richer colors and film-like experience.

◀ With 500W, 1.0kW, 1.2kW, 2.0kW and 3.0kW of power, the Christie HD Series features user-replaceable, pre-aligned Xenon lamp modules with adjustable lamp power for lower brightness. The stable color temperature over the course of the lamp life and the power range provides the best lamp technology for color matching across multiple screens.

▲ The Christie HD Series features the widest source compatibility and has built-in Ethernet networking for full compatibility with ChristieNET™ for total projector monitoring.

CHRISTIE®

◀ Stacking cages are available as options on the HD2Kc, HD3K, HD5Kc, HD6K, HD7Kc and the HD8K allowing for easy and fast stacking. Hybrid stacks are available for use between the HD Series and our Roadster models as well.

▲ Digital Fabric and Fuse Communication South Africa have utilized Christie cutting-edge projection in the renovation of the legendary De Beers 'Big Hole' – described as the world's deepest man-made hole – in Kimberley, South Africa.

The highlight is the use of audio-visual effects to simulate the underground experience, and the first deployment of the Christie HD8K projector (which is also the first-ever native HD resolution 3-chip projector). A spectacular upgraded rough diamond display, a viewing platform and interactive audio-visual displays all serve to enhance the visitor experience.

Digital Fabric were appointed as AV consultants after working in a similar capacity on the Cradle of Humankind project and striking up a good relationship with the design company Fuse Communication which continued into the Kimberley project. They were tasked with designing all the AV systems (including the underground element). Final surround sound specifications were decided by a team comprising Fuse Communication, Digital Fabric, and AV contractors Sonic Factory and Tadco.

The introductory 5.1 surround-sound theater presents a 15-minute film titled Diamonds & Destiny – run end-to-end in 1920 x 1080 HD

◀ A suite of specifically-designed lenses includes both fixed and zoom lenses ranging from the 0.67:1 through to the 6.9-10.4 and features a durable lens mount with motorized horizontal and vertical offset. With quick lens insertion, the Christie HD Series is easy to work with.

◀ Optional handles are available.

Competitive advantages

- True HD resolution (1920 x 1080)
- Smallest, high-performance 3-chip DLP® product – offers the pinnacle of image color accuracy and adjustability
- Xenon lamp system – provides repeatability of photo-realistic colors and ability to accurately color-match images
- True 10-bit processing – offers high-bandwidth signal processing
- Highest contrast – at 1600-2000:1 (via internal adjustable aperture)
- Brightest HD 3-chip DLP® in the world
- RoadTools™ (FREE)
- Sealed DMDs
- Best cost of ownership
- Broadest HD 3-chip DLP® line-up, ranging from 2300 lumens to 18,000 lumens

native resolution. It was shot on HDCAM especially for this attraction in a period theme, and edited and encoded locally to HDMPEG. The film is played from an Alcorn McBride DVM HD video server and projected from a Christie HD8K onto a wrap around, perforated screen from Harkness Hall.

The theater is barely 13m deep with a 10m x 5.625m screen which gives it almost IMAX proportions in the room. This size image could only have been done on HD and we are proud to have been the first consultants to specify the new Christie HD8K.

CHRISTIE®

	HD2Kc	HD3K	HD5Kc	HD6K
Image				
brightness	• 2300 ANSI lumens @ 500W [2550 center lumens] • 1600 ANSI lumens @ 350W [1785 center lumens]	• 2900 ANSI lumens @ 500W [3200 center lumens] • 2030 ANSI lumens @ 350W [2240 center lumens]	• 5000 ANSI lumens @ 200 VAC [5500 center lumens] • 3850 ANSI lumens @ 110 VAC [4250 center lumens]	• 6500 ANSI lumens @ 200 VAC [7100 center lumens] • 5000 ANSI lumens @ 110 VAC [5500 center lumens]
contrast	• 1600-2000:1 (full on/off) • 400:1 min ANSI			
uniformity	• 90% brightness			
Display				
type	• 3-chip 0.95" DMD			
native resolution	• HD (1920 x 1080)			
Lamp				
type	• 500W CERMAX® Xenon pre-aligned lamp module		• 1kW CERMAX® Xenon pre-aligned lamp module	
life	• Up to 2500 hours @ 500W • Up to 4000 hours @ 350W		• 1500 hours (typical) lifetime	
Input				
signal compatibility	• HDTV formats VGA through to QXGA (2048 x 1536) • Accepts all current HDTV/DTV formats • Multi-standard video decoder • Horizontal and vertical scaling, all inputs			
pixel clock	• 210 MHz			
scan rates	• 15 kHz to 120 kHz Horizontal • 23.97 Hz to 150 Hz Vertical			
Inputs, control and networking	• RGBHV/YPbPr via 5 BNC • DVI-I – digital/analog RGB/YPbPr (HDCP) • One composite video, one S-video • Two optional slots for analog/digital modules • 2 RS-232 ports, 1 GPIO port, 1 RS-422 port • On-board ChristieNET™ connectivity (RJ45) • Built-in backlit keypad and IR remote control			
Optical system	• Dust sealed, 3-chip DMD light engine • Motorized horizontal and vertical lens offset • Scheimpflug (tilt) adjustment • Built-in light shutter • Tool-free lens insertion system			
Lens options				
fixed	• 0.67:1*, 1.1:1			
zoom	• 1.16-1.49:1, 1.4-1.8:1, 1.8-2.6:1, 2.6-4.1:1, 4.1-6.9:1, 6.9-10.4:1			
offsets	• ±120% Vertical • ±42% Horizontal • (* ±50%V ±20%H)			
Accessories				
standard	• IR keypad (w/batteries) • Line cord • User manual • Input modules – Dual SD/HD-SDI, DVI			
optional	• Christie Twist™ image warping and edge-blending module • Input modules Dual SD/HD-SDI, DVI and legacy interface modules • Wired remote control and RS-422 • Remote IR sensor • Ethernet, RS-232, RS-422 cables • Service manual • KoRE™ 10-bit librarian • Lens adapter (can be used with competitors lenses) • Stacker • and more (see accessories brochure)			
Enhanced feature sets	• LiteLOC™ • Film-like color reproduction with Kc models • Comprehensive Color Adjustment (CCA™) • User replaceable bulb in Roadster models • Intelligent Lens System (ILS™) for zoom and focus on the zoom lenses • Built-in edge blending • Menus in five languages • 50 channel memories • Auto setup • Digital keystone correction			
Power requirements				
operating voltage	• 100 VAC to 240 VAC ± @ 50/60 Hz			
operating current	• 10A @ 100 VAC / 5A @ 200 VAC		• 10.4A @ 100 VAC / 8A @ 200 VAC	
power	• 879W maximum		• 1600W maximum	
dissipation	• 3000 BTU/hr		• 5460 BTU/hr	
Dimensions				
size	• (LxWxH): 22.3 x 26.0 x 12.32" (566 x 660 x 313mm)			
volume	• 7132 in^3 (116,924 cm^3)			
weight	• 72 lb (32.1 kg)		• 75 lb (34 kg)	
shipping weight	• 115 lb (52 kg)		• 120 lb (54.4 kg)	
Operating environment	• Temperature: 40 to 95° F (5 to 35° C) • Humidity: 20-80% non-condensing			
Regulatory approvals	This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC): • FCC Part 15, Subpart B Class A; CISPR22/EN55022; CISPR24/EN55024 • UL 60950-1 First edition; CAN/CSA-C22.2 No 60950-1-03 First edition; • IEC60950-1:2001 • 2002/95/EC RoHS			
Limited warranty	• 2 years parts and labor (including light engine) • Contact an authorized Christie representative for full details of our limited warranty			

HD7Kc	HD8K	Roadster HD12K	Roadster HD18K
• 6500 ANSI lumens [7200 center lumens]	• 8000 ANSI lumens [8800 center lumens]	• 12,000 ANSI lumens (±10%) [13,200 center lumens]	• 18,000 ANSI lumens (±10%) [19,800 center lumens]
• 1600-2000:1 (full on/off) • 400:1 min ANSI			
• 90% brightness			
• 3-chip 0.95" DMD			
• HD (1920 x 1080)			
• 1.2kW CERMAX® Xenon pre-aligned lamp module		• 2.0kW Xenon bubble lamp module	• 3.0kW Xenon bubble lamp module
• 1500 hours (typical) lifetime		• 1000 hours (typical) lifetime	• 750 hours (typical) lifetime
• HDTV formats VGA through to QXGA (2048 x 1536) • Accepts all current HDTV/DTV formats • Multi-standard video decoder • Horizontal and vertical scaling, all inputs			
• 210 MHz			
• 15 kHz to 120 kHz Horizontal • 23.97 Hz to 150 Hz Vertical			
• RGBHV/YPbPr via 5 BNC • DVI-I – digital/analog RGB/YPbPr (HDCP) • One composite video, one S-video • Two optional slots for analog/digital modules • 2 RS-232 ports, 1 GPIO port, 1 RS-422 port • On-board ChristieNET™ connectivity (RJ45) • Built-in backlit keypad and IR remote control			
• Dust sealed, 3-chip DMD light engine • Motorized horizontal and vertical lens offset • Scheimpflug (tilt) adjustment • Built-in light shutter • Tool-free lens insertion system			
• 0.67:1*, 1.1:1			
• 1.16-1.49:1, 1.4-1.8:1, 1.8-2.6:1, 2.6-4.1:1, 4.1-6.9:1, 6.9-10.4:1			
• ±120% Vertical • ±42% Horizontal • (* ±50%V ±20%H)			
• IR keypad (w/batteries) • Line cord • User manual • Input modules – Dual SD/HD-SDI, DVI			
• Christie Twist™ image warping and edge-blending module • Input modules Dual SD/HD-SDI, DVI and legacy interface modules • Wired remote control and RS-422 • Remote IR sensor • Ethernet, RS-232, RS-422 cables • Service manual • KoRE™ 10-bit librarian • Lens adapter (can be used with competitors lenses) • Stacker • and more (see accessories brochure)			
• LiteLOC™ • Film-like color reproduction with Kc models • Comprehensive Color Adjustment (CCA™) • User replaceable bulb in Roadster models • Intelligent Lens System (ILS™) for zoom and focus on the zoom lenses • Built-in edge blending • Menus in five languages • 50 channel memories • Auto setup • Digital keystone correction			
• 200 VAC to 240 VAC ± @ 50/60 Hz			
• 10A @ 200 VAC		• 15A @ 200 VAC	• 14.8A @ 264 VAC
• 2000W maximum		• 3000W	• 3900W
• 6825 BTU/hr		• 10,236 BTU/hr	• 13,320 BTU/hr
• (LxWxH): 22.3 x 26.0 x 12.32" (566 x 660 x 313mm)		• (LxWxH): 32.1 x 24.5 x 15.1" (814.8 x 631.4 x 384mm)	
• 7132 in³ (116,924 cm³)		• 11,875 in³ (197,555 cm³)	
• 80 lb (36.3 kg)		• 135 lb (61.4 kg)	• 160 lb (72.6 kg)
• 125 lb (56.7 kg)		• 160 lb (72.6 kg)	• 230 lb (104.3 kg)
• Temperature: 40 to 95° F (5 to 35° C) • Humidity: 20-80% non-condensing			
This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC): • FCC Part 15, Subpart B Class A; CISPR22/EN55022; CISPR24/EN55024 • UL 60950-1 First Edition; CAN/CSA-C22.2 No 60950-1-03 First edition; • IEC60950-1:2001 • 2002/95/EC RoHS			
• 2 years parts and labor (including light engine) • Contact an authorized Christie representative for full details of our limited warranty			

CHRISTIE®

Roadster Series

Auditoriums
Casinos, theme parks and museums
Concerts
Executive briefings and conference centers
Houses of worship
Rental/staging
Tradeshows and exhibitions

Pure power in a compact, purpose-built package

The Christie Roadster Series continues to raise the bar for rental/staging. For unbelievably bright images with stunning detail and depth of color, the Christie Roadster Series puts pure power in your hands with purpose-built features. Designed with built-in handles, an improved airflow system and multiple rigging points, these powerhouse projectors stack up against the rigors and stress of rental/staging – fly, rig, ship them, use them again and again.

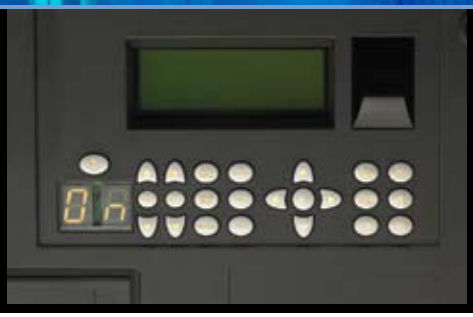
These compact projectors feature SXGA+ resolution and a variable contrast ratio of 1600–2000:1 for brilliantly crisp, detailed images.

With DLP® technology, high-quality optics and 10-bit image processing the Christie Roadster Series delivers crisp, clean images with perfect color saturation and spectacular video.

The Christie Roadster Series will respond to almost any kind of control in the projection world including RS-232, RS-422, IR remote, wired remote, two way controller, direct control panel input and over a LAN via on-board ChristieNET™.

The Christie Roadster Series – the de facto standard for rental/staging.

CHRISTIE®



Display technology

Featuring high-quality DLP® technology, the Christie Roadster Series has proven to be the world's favorite 3-chip, DLP® projector. Low maintenance, highly reliable DLP® technology delivers high brightness and unsurpassed color, brightness uniformity and control capabilities.

Image quality

The 3-chip SXGA+ engines are driven by Xenon illumination and deliver superior image quality, repeatability of colors and the ability to edge blend and tile images – whether multiple projectors on a single screen, or multiple screen displays.

Image processing

With proven 10-bit image processing, the Christie Roadster Series offers high bandwidth signal processing. The high bandwidth supports additional functionality such as Picture-in-Picture, HD 4:4:4 and seamless switching between sources. For added ease of blending, Digital Black Level Adjustment lets the user match the blended (gutter) black levels with the nonblended black levels.

Serviceability

Operation and maintenance of the Christie Roadster Series is easy as well. Quick internal access with 1/4-turn screws, a quick-change ballast, a removable image processing module, field-alignable DMDs – put full control in the hands of the user. Replacement lamp costs are low and Christie offers the best warranties on the market – 2 years parts and labor – including light engine.

Ease of use

A user-friendly Graphic User Interface (GUI) makes operation and set-up of the entire Christie Roadster Series uncomplicated. The GUI enables full and easy control of the projector. Multiple control options let the user choose what's best for their application – built-in, IR and wired remote keypad; wired or wireless two way controller; RS-422 or RS-232 control; or through ChristieNET™ via the Ethernet port. Optional ChristieNET™ WAVE and ChristieNET™ WAVE-DVD provide wireless presentation power for data, video and streaming video. Motorized lens functions provide power focus, zoom, horizontal and vertical offset – all at the touch of a button, while the Intelligent Lens System (ILS™) provides auto recall for zoom and focus. Auto set-up automatically recognizes sources and sets up correct brightness, contrast, position and pixel clock.

Competitive advantages

- Low cost of operation
- Brightness – brighter than all competitors for this size
- High Contrast – measured as high or higher than any competitive model – 1600-2000:1 full field
- Purpose-Built – built-in stacking, rigging and safety points

▼ An optional suite of specifically-designed SXGA+ lenses includes both fixed and zoom lenses ranging from 0.73:1 through to a 4.5-7.3:1 zoom and a durable lens mount with motorized horizontal and vertical offset. With a built-in light shutter, internal variable contrast aperture and quick lens insertion, the Christie Roadster Series is easy to work with.

▼ The Christie Roadster Series features an extremely high contrast ratio of 1600-2000:1 full field; 450-700:1 ANSI – a motorized IRIS adjusts for high contrast ratio and better black levels, for any given application.

▼ With 2.0, 2.4 or 3.0kW, the Roadster Series features user-replaceable, pre-aligned Xenon lamp modules with adjustable lamp power. The stable color temperature over the course of the lamp life and the power range provides the best lamp technology for color matching across multiple screens.

- The Christie Roadster Series features the widest source compatibility and has built-in Ethernet networking for full compatibility with ChristieNET™, ChristieNET™ WAVE and ChristieNET™ WAVE-DVD for total projector monitoring, control and wireless image capabilities.

		Roadster S+12K	Roadster S+16K	Roadster S+20K
Image	brightness	• 12,000 ANSI lumens (±10%)	• 16,000 ANSI lumens (±10%)	20,000 ANSI lumens (±10%)
	contrast	• 1600:2000:1 full field • ANSI 450:1 min		1800:1 full field • ANSI 450:1 min
	uniformity	• 90% brightness uniformity		
Display	type	• 3-chip 0.95" DLP® resolution		
	native resolution	• SXGA+ 1400 x 1050		
Lamp	type	• 2.0kW Xenon Bubble pre-aligned lamp module	• 2.4kW Xenon Bubble pre-aligned lamp module	• 3.0kW Xenon Bubble pre-aligned lamp module
	life	• 1000 hrs (typical) lifetime	• 750 hrs (typical) lifetime	• 750 hrs (typical) lifetime
Input	signals	• VGA through to QXGA (2048 x 1536) • Supports standard HDTV formats up to 1080p • Multi-standard video decoder • Horizontal and vertical scaling, all inputs		
	scan rates	• 15-120kHz Horizontal • 23.97-150Hz Vertical		
Inputs, control and networking		• RGBHV/YPbPr via 5 BNC • DVI-I for digital/analog RGB/YPbPr (HDCP) • One composite video, one S-video • Two optional slots for analog/digital modules (comes standard, populated with Dual SD/HD-SDI module) • Two RS-232 ports, one RS-422 port and one GPIO port • On-board ChristieNET™ connectivity (RJ45) • Built-in backlit keypad and IR remote control		
Lenses		• Fixed lenses: 0.73:1, 1.2:1 • Zoom lenses: 1.45-1.8:1, 1.8-2.5:1, 2.5-4.5:1, 4.5-7.3:1		
Accessories	standard	• IR keypad (w/batteries) • Line cord • Dual SD/HD-SDI module • User manual		
	optional	• Lenses: 0.73:1, 1.2:1, 1.5-2.0, 2.0-2.8, 2.8-4.5, 4.5-7.3 • Dual SD/HD-SDI (additional module), DVI and legacy interface modules • Wire remote control • Two-way controller • Remote IR sensor • ChristieNET™ WAVE • ChristieNET™ WAVE-DVD • Ethernet, RS-232, RS-422 cables • Service manual • KoRETM 10-bit librarian • Lens adapter (for competitive lenses)		
Power requirements	operating voltage	• 200-240VAC @ 50/60Hz	• 200-240VAC @ 50/60Hz	• 200-240VAC @ 50/60Hz
	operating current	• 15A @ 200V	• 20A @ 200V	• 25A @ 200V
	power	• 3000W	• 4000W max	• 5000W max (measured 3900W at 264V @ 14.8A)
	dissipation	• 10,236BTU/hr	• 13,648BTU/hr	• 17,060BTU/hr
Dimensions	size	• (LxWxH): 32.1 x 24.5 x 15.1" (815 x 622 x 384mm)	• (LxWxH): 32.1 x 24.5 x 15.1" (815 x 622 x 384mm)	• (LxWxH): 32.1 x 24.5 x 15.1" (815 x 622 x 384mm)
	weight	• 140lb (63.5kg)	• 140lb (63.5kg)	• 160lb (72.6kg)
	shipping weight	• 165lb (75kg)	• 165lb (75kg)	• 230lb (104.4kg)
Operating environment		• Temperature: 40-95°F (5-35°C) • Humidity: 20-80% non-condensing		
Regulatory approvals		• This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC): • FCC Part 15, Subpart B Class A • CISPR22/EN55022 • CISPR24/EN55024 • UL 60950-1 first edition • CAN/CSA-C22.2 No 60950-1-03 first edition • IEC60950-1:2001 • 2002/95/EC RoHS		
Limited warranty		• 2 years parts and labor • Contact an authorized Christie representative for full details of our limited warranty		

Roadie HD+35K

Audience events
Auditoriums
Houses of worship
Large venues
Renters/Stagers

World's brightest projector

There's only one projector with the brightest, highest resolution HD image – the Christie Roadie HD+35K. Rounding out Christie's expansive 3-chip DLP® product line up, there's no comparison for resolution, brightness or performance.

Producing 32,500 ANSI lumens (35,000 center lumens), this newest Roadie features Christie's unique, flexible split-body design with separate switching lamp ballast. The Christie Roadie HD+35K includes a rear air exhaust hood for improved stack-ability and a new motorized lens mount enables you to focus and adjust lens position using a remote control.

With native 2048 x 1080 HD resolution and 10-bit image processing, images are simply stunning in their size, brilliance and quality. The user-replaceable lamps can be automatically aligned at the push of a button and user-friendly controls ensure easy maintenance and servicing. Along with built-in body handles for handling and rigging or an optional stacking/rigging frame this tough, manageable projector is built for true road worthiness – frequent transport and quick set-up.

CHRISTIE®

Single-button direct key access, auto set-up and power-up features put real control at your fingertips.

Motorized lens mount enables users to adjust focus and lens position using a remote control.

The Roadie HD+35K delivers superior image quality and enables users to stack, blend and color-match multiple projectors.

Image quality

3-chip DLP® technology, high-quality optics and world-class 10-bit image processing.

With low maintenance and highly reliable (>100,000 hours) DLP® technology, the Roadie HD+35K delivers:

- High brightness
- Repeatable color
- Excellent uniformity
- High contrast
- Excellent fill ratio
- Control capabilities in a native widescreen format

Proven 10-bit native HD processing

Utilizing the proven 10-bit processing in our 2K resolution products, the Roadie HD+35K continues to exceed expectations in image quality and reproduction. High bandwidth supports additional functionality such as Picture-in-Picture and seamless switching between sources.

Serviceability

Managing the operation and maintenance of the Roadie HD+35K is easy. Field-alignable DMDs and a cleanable optical engine give you full control of the projector. Replacement lamp costs are low and we offer the best warranty on the market – 3 years parts and labor (including light engine).

Competitive advantage

- 35,000 lumens at 2048 x 1080 resolution
- Brightest and highest resolution 3-chip DLP® technology available today
- Superior image quality and ability to stack, blend, and color-match multiple projectors
- Separate projection head and lamp ballast
- Built-in carrying and rigging handles
- Motorized lens mount
- Stackable (optional stacking frame for up to 105,000 lumens)
- High-performance, inexpensive bubble lamp, with auto-alignment

High performance electronics

Christie-designed electronics with HD 4:4:4 capabilities and Digital Black Level control that can be used with built-in edge blending are key strengths of the Roadie HD+35K. Additional features include seamless switching, Picture-in-Picture, LiteLOC™ and a new motorized lens mount. The built-in RJ45 networking port also enables ChristieNET™ to be used for monitoring and control to provide complete asset management. The video processing, with artifact-free video and excellent color and contrast, produces unparalleled images.

The spectacular opening of Atlantis, The Palm – situated on Dubai's luxurious man-made island of Palm Jumeirah in Dubai – took the form of a pageant in which all the high-definition content projection (which helped to tell the story of Atlantis, the lost city) was handled by 42 Christie Roadie and 10 Roadster projectors.

Roadie ducted exhaust kit 113-107109-XX
Extraction fan kit 38-814008-XX

The combination of the Roadie ducted exhaust kit and extraction fan kit directs hot air away from the projector to prevent overheating when using the Roadie in an enclosed room.

Enhanced power

Christie RoadTools™ is a FREE robust suite of software tools that enables faster system set up, improved projector management and increased productivity. RoadTools™ works with 3-chip DLP® and 1-chip DLP® projectors using Christie's exclusive KoRE™ technology electronics.

LiteLOC™

The LiteLOC™ feature automatically manages your display's brightness levels over time so that you can match the brightness of a multiple projector system in tiled or blended arrays. This feedback system continuously monitors lamp brightness, so that as the lamp goes through its natural brightness decay, the system increases the lamp power in order to maintain consistent brightness.

Lens	Part number
0.8:1 Fixed	113-104106-XX
1.1:1 Fixed	38-809071-XX
1.25 – 1.45:1 Zoom	38-809073-XX
1.45 – 1.8:1 Zoom	38-809074-XX
1.8 – 2.4:1 Zoom	38-809075-XX
2.2 – 3.0:1 Zoom	38-809076-XX
3.0 – 4.3:1 Zoom	38-809077-XX
4.3 – 6.0:1 Zoom	38-809072-XX
5.5 – 8.5:1 Zoom	38-809078-XX
Specialty lenses	
38-809054-XX Anamorphic lens 1.26X	
108-111102-XX Motorized anamorphic lens mount	

Inputs	Part number
Dual SD/HD-SDI input	38-804656-XX
DVI input	38-804635-XX
Miscellaneous accessories	**Part number**
Anamorphic lens mount	38-813019-XX
High contrast aperture kit	38-813028-XX
Lamp safety kit	598900-XX
Remote IR sensor	104-106101-XX
Rigging frame	38-814007-XX
Rigging clamps	113-102101-XX
Wired remote control	104-109001-XX
Roadie ducted exhaust kit	113-107109-XX
Extraction fan kit	38-814008-XX
7kW switching ballast	38-814001-XX
Filter replacement (6 Pack)	03-001981-XX
Christie Twist™	108-103101-XX
Christie Twist™ Pro software upgrade	108-247101-XX
Christie AutoStack™	108-308101-XX
Cable kits	**Part number**
Cable kit 100ft	38-814006-XX
Cable kit 50ft	38-814005-XX
Cable kit 25ft	38-814004-XX
Cable kit 6ft	38-814003-XX

Description	Lamp	Brightness	Typical lamp life	Part number
CDXL 60 Lamp	6.0kW	32,500 ANSI lumens (35,000 center lumens)	1000 hrs (750 hrs at 6.6kW)	003-000601-XX
CDXL 45 Lamp	4.5kW	27,000 ANSI lumens (29,000 center lumens)	900 hrs	003-000600-XX
CDXL 30 Lamp	3.0kW	18,000 ANSI lumens (19,500 center lumens)	2500 hrs	003-000599-XX
CDXL 20 Lamp	2.0kW	12,000 ANSI lumens (13,000 center lumens)	3500 hrs	003-000598-XX

CDXL high performance short-arc Xenon lamps offer increased brightness in the same form factor as standard Xenon grade lamps.

In total, there are two input card slots available on the Roadie, one is equipped with a standard Dual SD/HD-SDI input card.

CHRISTIE®

▲ Separate projection head and switching lamp ballast provide handling and rigging/installation flexibility. The separate units enable smaller, lighter, more manageable parts.

▲ The ballast can be stored up to 100ft away from the projection head (cable kit dependent).

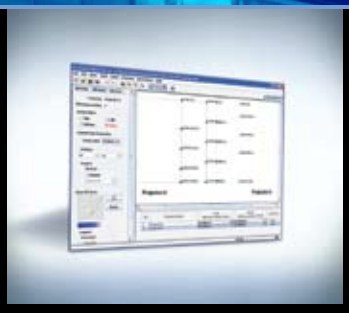
▲ A cable kit is used to connect the 7kW switching lamp ballast to the projection head for greater installation flexibility. Cable kits are available in 6ft, 25ft, 50ft and 100ft lengths.

▲ In 2008, international beer label, SKOL, commissioned a spectacular display of artistic images on a 100-foot diameter ferris wheel on Rio de Janeiro's famous Copacabana Beach. The project, entitled "Olhar Redondo" (translated as "look around") and a tribute to Rio's patron saint, Saint Sebastian, received the "Most Innovative Use of Technology for an Outdoor Event" title presented during the 2009 InfoComm/LSA Staged Events Awards.

Known for their high brightness and rugged design, stacked Christie Roadie projectors illuminated the Ferris wheel, located more than 154 feet away. The projectors rested on a 39-foot scaffolding tower constructed to resist the area's high winds, which can reach up to 80 mph.

Christie projectors were selected for this display because of our excellent customer support record and the exceptional ruggedness and reliability of our products.

Photo courtesy of Jose Roberto Couto.



Christie Twist™
108-103101-XX

Christie Twist™ enables seamless white and black level edge-blending of multiple curved images, faster and more easily than through traditional, manual methods. Controlled by an easy-to-use GUI, you can expertly control and edge blend or stack multiple curved images to fit virtually any dimension or shape display. Available as an option, Christie Twist™ ensures that Roadie HD+35K projectors work with value-added accessories, such as Christie AutoStack™.

- Allows warping, blending and masking of projectors with up to a 10 x 10 grid
- Additional functions: edge blending with curved edge contours, anti-aliasing filtering, sharpness filtering
- Display control points and warp lines on projector – a test pattern is generated in the projector that shows the warp grid and identifies the warp control points
- Add, delete, copy and paste of multiple warps, blends and masks on a single projector
- Control up to 6 projectors from any PC via Ethernet or RS-232 using the Christie Twist™ virtual remote

Christie AutoStack™
108-308101-XX

Set up faster, professional quality, multiple-projector displays in just minutes. Part of the Christie TruImage™ suite of integrated solutions, Christie AutoStack™ is a vision-based solution that enables stacking and blending of projector arrays in a fraction of the time it takes manually. Christie AutoStack™ is available for any projector equipped with Christie Twist™.

Up to 12 stacked and blended projectors can be automatically calibrated with unsurpassed accuracy, in as a little as 2 minutes per projector. The software driven camera-based system supports various screen sizes and aspect ratios, utilizing screen points for quick geometric calibration.

Christie AutoStack™ provides the opportunity to include complex projector arrays in both rental staging and fixed installs without increasing time, labor or resources. Now, professional quality results can be achieved with minimal experience required, enabling you to utilize multiple projection arrays for impact, brightness or redundancy without excess time and labor.

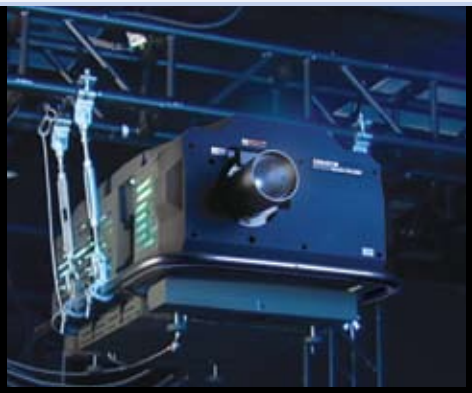
- Blend and stack a typical 2 x 2 configuration in approximately 8 minutes (2 minutes per projector)
- Intuitive user interface with real-time camera feedback
- Supports up to 2 x 3 blended and stacked configurations for a total of 12 projectors
- Rugged high resolution industrial charge coupled-device (CCD) camera
- Ships standard with rugged travel carrying case

▼ Rigging frame 38-814007-XX

For rigging or "flying" in a suspended installation, and/or for stacking two projectors together.

▼ Rigging clamps 113-102-101-XX

Clamps can be used on the rigging frame or directly on the Roadie HD+35K.

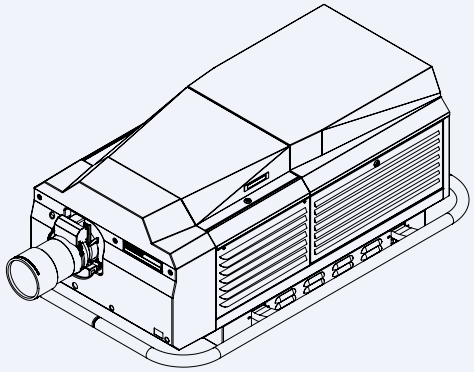


CHRISTIE®

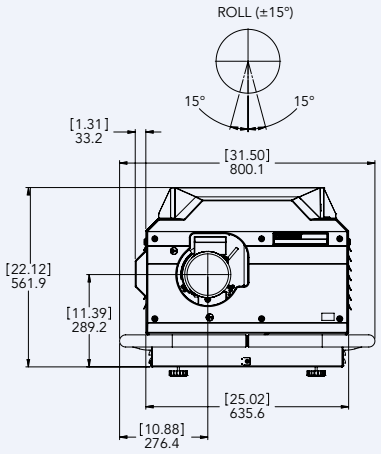
		Roadie HD+35K
Image	brightness	32,500 ANSI lumens (35,000 Center lumens) – 6.0kW Lamp
		27,000 ANSI lumens (29,000 Center lumens) – 4.5kW Lamp
		18,000 ANSI lumens (19,500 Center lumens) – 3.0kW Lamp
		12,000 ANSI lumens (13,000 Center lumens) – 2.0kW Lamp
	contrast	2000:1 (full on/off)
	uniformity	90% brightness uniformity
Display	type	3-chip 1.25" DMD
	native resolution	DC2K (2048 x 1080)
Lamp	type	Xenon bubble*
	typical lifetime	6.0kW 1000 hrs (750 hrs at 6.6kW) • 4.5kW 900 hrs • 3.0kW 2500 hrs • 2.0kW 3500 hrs
Input	signals	HDTV formats VGA through to QXGA (2048 x 1536) • Accepts all current HDTV/DTV formats • Multi-standard video decoder • Horizontal and vertical scaling, all inputs
	pixel clock	210MHz
	scan rates	Horizontal: 5kHz to 120kHz • Vertical: 23.97Hz to 150Hz
Inputs, control and networking		RGBHV/YPbPr: 5 BNC • DVI-I Analog / Digital RGB/YPbPR (HDCP) • S-video • Composite video • 2 RS-232 ports • 3 RS-422 ports • GPIO port • Ethernet (10/100) RJ45 with ChristieNET™ connectivity • Built-in backlit LCD keypad • Front and rear IR receivers • 2 input slots for analog/digital modules
Accessories	standard	Dual SD/HD-SDI input card • Detached 7kW switching lamp ballast • IR Remote keypad (with optional wired connection) • Line cord • 6ft ballast cable • Handles for carrying and rigging • User manual
	optional	Input cards – DVI, Dual SD/HD-SDI • Christie Twist™ • Remote IR sensor • Wired remote control • Rigging frame • Rigging clamps • Lamp safety kit • High contrast aperture kits • 6ft, 25ft, 50ft or 100ft ballast cable kit • Service manuals • KoRE 10-bit librarian software • Filter replacement packs • See the Christie 3-chip DLP® Accessories guide for the complete list of accessories
Lens mount	type	Tool-free lens insertion system • Boresight adjustable
	motorized	Horizontal and vertical offset • Focus • Zoom
Lens options	fixed	0.8:1[1] • 1.1:1[2]
	zoom	1.25-1.45:1[3] • 1.45-1.8:1[4] • 1.8-2.4:14[4] • 2.2-3.0:14[4] • 3.0-4.3:14[4] • 4.3-6.0:1[4] • 5.5-8.5:1[3]
	offsets	[1] ±45% V, ±15% H • [2] ±74%V, ±21% H • [3] ±100% V, ±35% H • [4] ±53% V, ±17% H
Power requirements		
Projector head	operating voltage	Single phase 200-240 VAC @50/60Hz
	max current	3A max
Ballast	type	Detached 7kW switching lamp ballast
	operating voltage	3-phase 200-230 VAC @50/60Hz
	max current	24A per phase max
	operating voltage	3-phase 380-415 VAC @50/60Hz
	max current	16A per phase max
Dimensions		
Projector head	dimensions	(L x W x H): 53.6 x 31.5 x 22.8" (1362 x 800 x 577mm)
	shipping dimensions	(L x W x H): 65 x 41 x 35" (1650 x 1040 x 890mm)
	weight	360lb (163kg)
	shipping weight	460lb (209kg)
Ballast	dimensions	(L x W x H): 21 x 18 x 21" (533 x 457 x 533mm)
	shipping dimensions	(L x W x H): 28 x 25 x 31.5" (710 x 635 x 800mm)
	weight	110lb (50kg)
	shipping weight	145lb (66kg)
Optional rigging frame	dimensions	(L x W x H): 59.4 x 33.5 x 25.7" (1510 x 851 x 653mm)
	shipping dimensions	(L x W x H): 54 x 32 x 10" (1372 x 813 x 254mm)
	weight	110lb (50kg)
	shipping weight	166lb (75kg)
Operating environment		Temperature: 5 to 35° C (40 to 95° F) • Humidity: 20 – 80% non-condensing
Regulatory		UL/CSA/IEC 60950 (3rd edition) • FCC Class A, CE • This product conforms to all relevant European directives, standards, safety, health and environmental concerns • RoHS, WEEE
Limited warranty		3 years parts and labor (including light engine) • Contact an authorized Christie representative for full details of our limited warranty

* User replaceable bulb

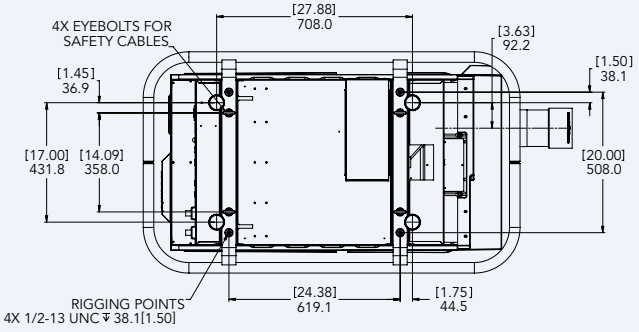
Angle view



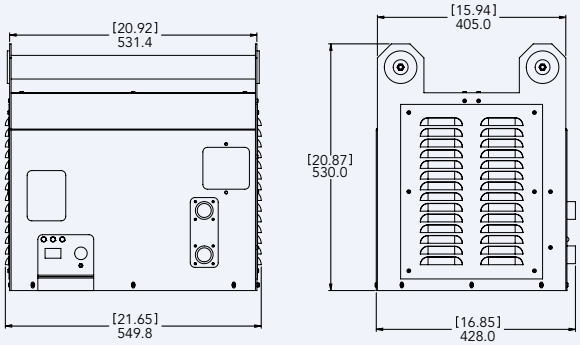
Front view



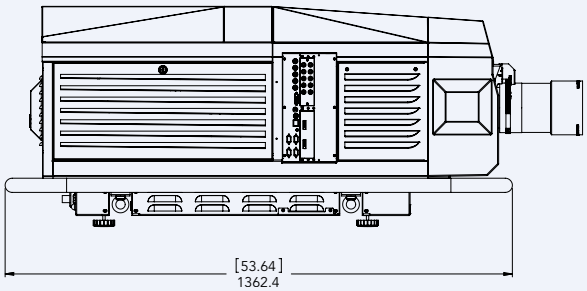
Bottom view

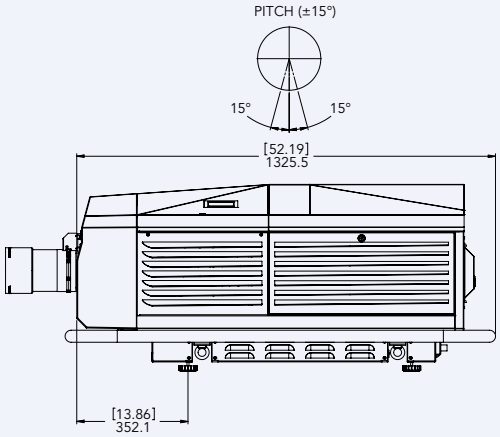


7kW Switching ballast



Side views





COMPANY PROFILE

Space Vision was founded in October 2002 by a team of engineers and businessmen with vast experience in the area of electronics and audiovisual systems. The main goal of the company's founders was the creation of a flexible and dynamic enterprise, which would bring a new era in the field of the audiovisual solutions in Greece.

Since its foundation, our company has established a high reputation over the years, by implementing medium and large-scale projects and has managed to hold one of the highest positions in the area of AudioVisual Integrators in the Greek Market.

The company's activities vary from the trade, installation and engineering of audiovisual systems to the implementation of turnkey projects.

Today, the name of Space Vision stands out in hundreds of high-tech installations in cinemas, studios, classrooms, meeting rooms, auditoriums, convention centers, theaters and museums across a broad spectrum of public and private organizations and agencies all over Greece.

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